

RAMUP 4.0 Manual

by

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and

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Chapter 1

RAMUP Introduction

Welcome to **RAMUP**, the quickest and most convenient way of running your favorite programs on the Apple II series of computers. If this is your first attempt to utilize the many advantages of your Apple, Applied Engineering, or other ramcard, prepare to be launched into an exciting new way of working with your computer. A way which will ultimately reduce the amount of busywork (disk swapping and etc.) that is forced upon many users.

If you have used a ramdisk before, but have never used **RAMUP**, prepare yourself for a whole new level of power. After all, isn't that what computing is all about? Squeezing that extra bit of speed from the machine, and making that favorite application run just a little bit smoother is what makes computers a challenge. You will find a great amount of "squeezing" and "smoothing" built right into **RAMUP**.

What is RAMUP?

RAMUP is a complete software interface for your ramcard(s) that does the following:

- 1) Creates a ramdisk on your ramcard, if needed.

- 2) Loads itself and your favorite ProDOS application programs to your ramcard.
- 3) Provides a powerful program selector enabling you to quickly switch between applications on your ramcard in just seconds!
- 4) Manages multiple ramcards.
- 5) Provides you with status information and partitioning to manage your ramcard storage space.
- 6) Autoloads your ramcard from disk if desired.
- 7) Backs up or restores your ramcard if desired.

RAMUP comes ready to load most of the ProDOS software currently available. This will enable you to get up and running quickly, without any programming knowledge. However, **RAMUP** can be configured to meet your exact needs and desires. We have designed **RAMUP** to be as simple as possible by limiting the number of configuration steps, but if you would like to customize it, you have total control over its operations at any time.

Requirements for using RAMUP

- 1) Apple //e, //c, IIGS or LASER computer with an 80 column card and 128k base memory.

- 2) An Apple, Applied Engineering, or Checkmate expansion card with at least 512k of ram installed.
- 3) Any non-copy protected ProDOS software package(s). (Most programs available today are ProDOS.)

RAMUP is shipped in 5.25" format, but 3.5" disks are available upon request.

Recommended hardware for using RAMUP

- 1) A ramcard with 1-megabyte or more of ram installed.
- 2) A 3.5" disk drive or Hard Drive.

About This Manual

This manual is divided into two major sections. For the users who do not like reading a long manual before they boot a disk, we have provided a chapter just for you! "Quick Start" is a short tutorial which steps a user through the basics of setting up and using **RAMUP**.

The second part of this manual is a reference guide to each and every option **RAMUP** has to offer. Each section contains information on the advanced, as well as basic techniques, regarding its use. These

pages are helpful for those users who would like to configure **RAMUP** to meet their specific needs.

This manual describes the operations as you would perform them using the 5.25" disk format of **RAMUP** as supplied with your package. If you have a 3.5" disk or hard disk we recommend you install **RAMUP** to that drive before doing the configuration process. Doing this will help you avoid a lot of disk swapping necessary during its use. If you only have a 5.25" drive, please be patient when you are asked to swap disks. See "Put RAMUP on other Disk" for more information regarding this process.

Any keyboard commands that are mentioned within this text are referenced between greater and less than signs, "< >". The character between these can be entered in upper or lower case format. When there is more than one character to be typed in, each will be between its own set of signs. Therefore, if you see <RETURN> this indicates for you to press the RETURN key, not the individual letters.

Before We Begin...

REMEMBER: Make a backup copy of both of your **RAMUP** master disks. **RAMUP** is NOT copy-protected so you may quickly and easily make a backup copy of your **RAMUP** Master Diskettes by using the ProDOS FILER supplied with **RAMUP**.

To Backup your **RAMUP** diskettes:

- 1) Boot up your **RAMUP** Program Diskette.
- 2) At the **RAMUP** Title Screen, press <F> for Filer.
- 3) Choose <V> for Volume Commands from the Filer Main menu.
- 4) Choose <C> for Copy a Volume from the Volume Commands menu.
- 5) Specify the slot and drive for the volume you want to copy. This will be the slot and drive number where the **RAMUP** diskette is located. Usually this will be slot 6, drive 1.
- 6) Next you will specify the slot and drive of the disk you want to copy **RAMUP** to. Usually this will be slot 6, drive 2.

7) Press <RETURN> to begin copying.

When the Filer Volume Copy program is finished, you will have made a backup of the front side of **RAMUP**. You must repeat steps 5 through 7 two more times to make a backup copy of the two other sides of the **RAMUP** disks. If you have any additional questions, consult your "Apple ProDOS User's Manual" for further information concerning this process. Once you are done making a backup copy, please put the **RAMUP** Master Diskettes away for safe keeping. Use your backup copies to run **RAMUP**.

Allow us to define some terms before we begin:

RAMCARD



It is assumed that you have already purchased and installed a ramcard before attempting to use **RAMUP**. The term "ramcard" refers to the actual hardware installed in the computer to provide it with significant amounts of additional memory. It is suggested that you have at least 512k of memory on this card when using **RAMUP**. **RAMUP** may use almost 90k of the ramcard for its own files, so while it is possible to use it on a smaller card, it is not as convenient.

RAMDISK



This term refers to the way the extended ram on the ramcard may be used. When memory is used as a ramdisk, the computer is fooled by software into thinking that the memory is actually a disk drive. There are a few big differences between a ramdisk and a real disk drive, however, and one of them is **SPEED!** The ramdisk has no mechanical parts and therefore is lightning fast! Another major difference is the fact that ramdisks lose all of the information on them when the power is turned off on your computer.

COLD BOOT

Ramcards retain their files until a cold boot occurs. A cold boot means that the power is shut off to CPU and the ramcard. Ramcards with battery backup (like Ramcharger) retain power - therefore saving the files on your ramcard - even though you have shut off your main computer switch. In this manual when we refer to a cold boot, we mean power is removed from your ramcard and **RAMUP** will have to be reloaded.

WARM BOOT A warm boot occurs when you boot or re-boot through keystrokes or programs, in other words the power is never shut off. Things like <control><open apple><reset>, PR# from BASIC, and Boot # from **RAMUP** are examples of a warm boot. The files on your ramcard are NOT changed during a warm boot.

MENU **RAMUP** will provide you with a list of applications which have been loaded to the ramdisk. This is referred to as a MENU. The **RAMUP** Main Menu will allow you to select and enter into your favorite applications at the lightning fast speed of the ramdisk. When you exit the application, you will return to the **RAMUP** menu so you can choose another application.

APPLICATION This term refers to any program or group of related program files that can be loaded and executed by **RAMUP**. Some programs may require more than one program file be present in order to execute properly, or to execute certain functions. Such sets of programs include AppleWorks, Quicken, and Managing Your Money. These sets

of programs and data files are collectively referred to as an application.

APPLICATION DEFINITION

This term refers to all the information regarding the application as it applies to **RAMUP**. The definition contains such information as the title of the application, size, etc. This also contains the vital information such as the location where **RAMUP** is to load the application files from, and to, as well as each and every filename that **RAMUP** needs to load to the ramcard. This is how **RAMUP** is able to do its job and take all of the busy work out of using a ramcard.

PARTITION

When your ramcard is being used entirely as a ramdisk (for storage space like a disk drive), it is impossible for programs that recognize the additional ram to use it as computer memory. However, it is possible to use a portion of the ramcard for a ramdisk while the rest is devoted to program use. We do this by partitioning the software being used. Just as a partition might divide a room into two separate parts, a software partition will divide a

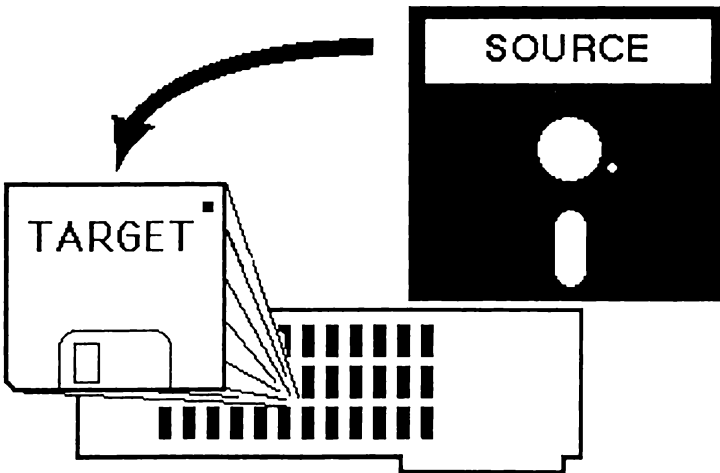
ramcard into a ramdisk and software memory.

SOURCE

This is defined as the location where **RAMUP** will load applications files FROM. This may be a 5.25", 3.5", or a Hard-Disk. **RAMUP** will load any ProDOS application that is non-copy protected.

TARGET

This is defined as the location where **RAMUP** will load applications files TO. The target volume for **RAMUP** is always a ramdisk.



BACKUP/ RESTORE

If you choose to store anything on your ramdisk, you will want a quick and easy way of saving that data in a safe place. The Backup/Restore program that comes with **RAMUP** will make a quick and neat backup of your ramdisk. Remember, all computer medias (floppy disk, hard disk, ramdisk,...etc.) can fail. It is important to have all of your important data in at least two places at once!

Chapter 2

QUICK START

This chapter is intended for those people who hate to read long manuals before attempting to use a product. It is designed to run a user through only the essential steps needed to get **RAMUP** "Up and Running". Not all screen prompts or actions are mentioned here. You will need to follow these steps, as well as follow the on screen prompts. However, if you are confused or stuck during a part of the configuration, just refer to the next chapters which describe each feature and utility in detail.

Configuring RAMUP

Before using **RAMUP** you must go through a configuration process. The configuration process consists of two steps: 1) Answering the configuration screens, and 2) Preparing a **RAMUP DATA.FILE**. This process need only be done once, however you may change the configuration at any time.

NOTE: If you have a 3.5" disk or hard drive we recommend you install **RAMUP** to that drive before doing the configuration process. Doing this will help you avoid a lot of disk swapping necessary during the process.



Follow these step-by-step instructions:

- 1) Boot the **RAMUP** disk. You may do this by placing the front side of the **RAMUP** program diskette in the first floppy drive and turning on the power. After a short amount of time the **RAMUP** title screen will appear. The title screen lists an inventory of items installed in your computer. Below the inventory is a short menu.
- 2) Press <C> to configure **RAMUP**. This will take you immediately to a set of configuration questions.
- 3) The first question is:

Do you want BASIC loaded onto the RAMDISK?

If you are planning on running BASIC programs on the ramdisk, you have little choice but to answer YES to this question. If you will not be using BASIC programs you may answer NO to this prompt and save 10k of ramdisk space.

- 4) The second question is:

Which of these volumes are RAMDISKS?

A list of ProDOS volumes will be presented below the question. You may use the up and

down arrow keys to select the volumes you know to be ramdisks. (They usually have names like RAM or RAM5.) Use the right arrow key to mark a volume (you may mark several if you have multiple ramcards/ramdisks). Do NOT select "RAMUP" as a ramdisk. This is the **RAMUP** program volume in your disk drive, not a ramdisk! When you have finished selecting ramdisks from this list, press the <ESC> key and answer <Y> for yes at the safety prompt ("Are you finished selecting?").

- 5) If you have selected more than one volume as a ramdisk in the previous question you will be presented with a third question.

Which of these volumes do you want RAMUP installed on?

A list of ProDOS volumes will appear below the question. The volume that you choose is the one that will have the **RAMUP** program files loaded to it at boot time. There is no clear choice here, but there are some guidelines that can be helpful in making your choice:

- A) If you have a ramcard that has battery backup you will probably want **RAMUP** installed on that one to reduce boot time.
- B) You may want **RAMUP** installed on the largest ramcard since it takes up 90k.

Simply highlight the volume with the up or down arrow keys and press <RETURN>.

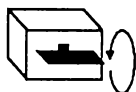
Preparing a **RAMUP DATA.FILE**

RAMUP comes complete with a database which contains application definitions of many of the most popular Apple programs. This database takes up more than 55k (111 blocks) of disk space and will probably contain definitions of many of the programs you will want to run with **RAMUP**. It also will undoubtedly contain some definitions which you will have no need for. Because of this, **RAMUP** requires you to prepare your own customized database called a **RAMUP DATA.FILE**. By doing this we can save valuable space on the ramdisk and avoid menus cluttered with prompts for applications that are never used.

When you prepare a **DATA.FILE**, you are actually creating a subset of the full **RAMUP** database. This subset contains the definitions of the group of programs that you want to use with **RAMUP**. You create and edit this subset with the utilities on the back side of the **RAMUP** program disk.

To prepare the **DATA.FILE** follow these instructions:

- 1) If you have just finished answering the configuration questions you will already be at the **RAMUP** title screen. If not, you must get to the title screen by booting the **RAMUP** program disk.



- 2) On the title screen you will see a prompt for the utilities. Press the <U> key. You will be prompted to insert the file "RUTIL.SYSTEM". This file is on the back side of the **RAMUP** program disk. Please remove the **RAMUP** distribution disk, turn it over, and insert it into the same drive. Press the <RETURN> key.

- 3) In a short while the Utilities Menu will appear. Select the "Add from RAMUP Database" option. The first screen displays information about the utility and will optionally let you abort to the menu screen.

- 4) Press <Y> and <RETURN> to enter the utility after you have read the screen.

- 5) You will be prompted to insert the database disk. Please insert the DATA.BASE distribution disk into the same drive that you had the **RAMUP** program disk in and press <RETURN>.



- 6) In a few seconds a screen will appear that has a list of several popular applications programs. You may browse the list by using the up and down arrow keys. Select the applications you will be using with **RAMUP** with the right and left arrow keys.

As an example, there are several different versions of AppleWorks listed at the beginning of the database. Since most people only use one version of AppleWorks you could select the one you wish to use by highlighting it on the menu and pressing the right arrow key. An arrow will appear to the left of the item to indicate that it has been selected.

- 7) When you have selected all of the items from the database that you want to use with **RAMUP** you may press the <ESC> key and press the <Y> key and <RETURN> at the safety prompt.

- 8) A screen will appear asking for the file "RAMUP.SYSTEM". This file is on the front side of the **RAMUP** program disk.



Please insert the **RAMUP** disk and press <RETURN>.

- 9) If this is the first time you have used "Add from RAMUP Database", a new DATA.FILE will be created for you. If a DATA.FILE already exists, your database selections will be appended to the existing file. A message will appear notifying you that the programs were successfully added. Press any key to continue.

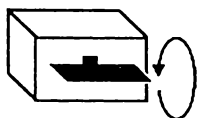


- 10) Yet another screen will appear asking you to insert the **RAMUP** utilities disk. Please insert the back side of the **RAMUP** distribution disk

and press <RETURN>. This will take you back to the Utilities Menu.

If you later find that you have added something to the DATA.FILE that you really didn't want, DON'T PANIC. There are additional utilities for deleting and modifying the applications definitions you have just added. These will be covered in the utilities section of this manual.

If you have successfully completed the configuration and have prepared a DATA.FILE, then **RAMUP** is now ready to use on your computer! You may select Exit to Title Screen to exit from the Utilities Menu. You



will be prompted to insert the 'RAMUP.SYSTEM' file. This file is located on the front side of the **RAMUP** program diskette. Please insert the proper side of the diskette

into the drive and press any key to continue.

Entering RAMUP

Now that the configuration is finished, **RAMUP** will be quite easy to use from here on out. Simply boot the **RAMUP** disk and press the <RETURN> key at the **RAMUP** title screen. **RAMUP** will prepare the ramdisk for use (if necessary) and load the **RAMUP** files to the ramdisk.

After the **RAMUP** files are loaded to the ramdisk the **RAMUP** application menu will appear. This is the

menu from which you will be able to easily run your applications on the ramdisk. For now, however, there is only a set of default items on the menu. These defaults represent the utilities available from the **RAMUP** Main Menu. They will be described later in this manual. The programs which you selected while preparing the DATA.FILE do not appear on this menu because they have not yet been added to the ramdisk.

The following instructions will step you through adding a program to the **RAMUP** Main Menu:

- 1) Select *Add an Application from the **RAMUP** Main Menu.
- 2) A menu will appear on the right hand side of the screen with all of the programs you selected while preparing the DATA.FILE. You may select the applications you wish to install to the ramdisk by using the right and left arrows. An arrow will appear to the left of the selected items.

NOTE: You may also notice the percent of ram used graph move when you select items. This graph gives you an estimate of how much room will be left on the ramdisk after installation.



- 3) Press the <ESC> key when you have finished selecting programs to load and answer YES to the safety prompt by pressing the <Y> key and <RETURN>.

- 4) **RAMUP** will prompt you for the diskettes necessary to copy the programs you have selected onto the ramdisk . Please insert them one at a time until **RAMUP** is finished.



NOTE: **RAMUP** uses two different prompts to ask for another disk depending on the circumstances. If **RAMUP** fails to find the volume name that the program is normally found on it will display a prompt asking for that volume. At this prompt, you may optionally type in an alternate pathname (if you have copied the software to a different disk, for instance). If **RAMUP** finds the correct volume or pathname, but cannot find the particular file it is looking for, it will display a prompt asking for the full pathname (including the filename).

- 5) When all of the selected programs are fully copied to the ramdisk, **RAMUP** will return to the applications menu. This time you will notice that your applications have been added to the top of the menu.

Using **RAMUP**

Once your applications are loaded to the ramdisk you may switch between them quickly and easily. Simply select your application from the menu. When you are finished with the application, and you exit it, you will be returned to the **RAMUP** Main Menu.

You are now done setting up **RAMUP** in the quickest and easiest way possible. However to benefit from all of the features **RAMUP** we recommend that you read the rest of this manual.

Chapter 3

RAMUP Title Screen

This is the first screen that appears once the front side of the **RAMUP** Program disk has been booted. You may get to this screen by placing the front side of the **RAMUP** program diskette in the first floppy drive, usually marked drive A, and turning on the power. After a short amount of time the **RAMUP** Title Screen will appear. You will notice a description of your system under the **RAMUP** title on the screen. This will not always give the most accurate description, depending on the age of your peripheral card. If it is, older or very new, this program will probably not recognize it. In this case, you will see the message, "unknown card type".

NOTE: Ramfactor users - don't worry if **RAMUP** says "unknown card type" displayed in that slot. This is because of a special identification technique used by this card. **RAMUP** will still recognize the card when it is run.



Under this system description you will find a selection menu that can be used to enter the different parts of **RAMUP**. This screen should look somewhat like the following:

RAMUP 4.0tm
As of: XX/XX/XX

Slot	Contents
1	Serial Port / AppleTalk Port
2	Serial Port / AppleTalk Port
3	Apple 80 Column Card
4	Mouse Port
5	UniDisk 3.5 inch Disk Port / SmartPort
6	IIGS Disk Port
7	Unknown Card Type

[Return] to enter RAMUP
[B] to enter BASIC
[F] to use the filer
[C] to Configure RAMUP
[U] to use the Utilities
[R] to Restore/Backup a volume

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Created by Joe Gleason

Rewritten by Walker Archer and Tony Fadell

The options work as follows:

[RETURN] to enter RAMUP

This option enables you to enter the **RAMUP** program. It follows the following steps:

- 1) It checks for a ramcard that needs a ramdisk driver. If one is found it executes the RAM.DRIVE program found on the front side of the **RAMUP** program disk.
- 2) It reads in the RAMUP.CONFIG file for information regarding the number of ramcards and names of ramdisk volumes.

- 3) It checks to see if **RAMUP** has been previously installed on the ramdisk. If not it proceeds to install the **RAMUP** system files. During this process it will patch the ProDOS 8 quit code so that any subsequent calls to it will return the user to the **RAMUP** Main Menu.
- 4) It checks to see if an auto-load configuration has been saved. If it has been, **RAMUP** will prompt for each of the applications required to set-up the previous Main Menu.

If your ramcard has already been loaded with **RAMUP**, pressing <RETURN> will display the **RAMUP** Main Menu. The Main Menu is explained further in the next section of this manual.

[B] to enter Basic

Pressing will take you to Applesoft BASIC. This will allow you to escape **RAMUP** and execute another program from the BASIC prompt “]” or do some programming. Whatever you would like to do here you can always get back to **RAMUP**. Make sure the front side of the **RAMUP** program disk is inserted and type “BYE” and <RETURN> at the Applesoft prompt “]”. You will then be returned to the **RAMUP** Title Screen.

[F] to use Filer

This is a quick way to access a file utility to take

care of all of your disk maintenance. The Filer program is Apple's utility for disk maintenance. By pressing <F> you will enter the Filer program. Refer to your "Apple ProDOS User's Manual" for more information regarding this program's use.

If you would rather use a different file utility it is possible to load that utility in place of the Apple Filer. Simply replace the file named "FILER" on the front side of the **RAMUP** disk with the program that you want to use. For instance, if you want to replace the filer with Copy II Plus: 1) Delete the "FILER" program from the **RAMUP** disk. 2) Copy the "UTIL.SYSTEM" file from Copy II Plus to the **RAMUP** disk. 3) Rename the "UTIL.SYSTEM" file on the **RAMUP** disk to "FILER."

[C] to Configure RAMUP

Pressing <C> will present the series of configuration screens which **RAMUP** needs to run. You can use this option to reconfigure **RAMUP** as many times as desired.

The configuration information is stored in the RAMUP.CONFIG file which will be created in the WORKSUB subdirectory of the boot drive. (See Configuring **RAMUP**).

[U] to use the Utilities

This is the only way of entering the **RAMUP**

Utilities. By pressing <U> you will be presented with the **RAMUP** Utilities Menu. You may see a prompt asking you to insert the **RAMUP** Utilities disk. The utilities are located on the reverse side of the **RAMUP** program disk . You will need to turn the disk over and press any key to continue. See the **RAMUP** Utilities chapter in which each of these utilities are explained.

[R] to Restore/Backup a Volume

Pressing <R> will allow you to quickly access the Backup/Restore program. Refer to the next chapter for more information regarding this utility.

NOTE: Backup/Restore is also located on the **RAMUP** Main Menu. The usual procedure is to Restore from the **RAMUP** Title Screen - and Backup from the **RAMUP** Main Menu. Backup and Restore are explained in detail in the **RAMUP** Main Menu section of this manual.



Chapter 4

RAMUP Main Menu

The Main Menu appears after “[RETURN] to enter RAMUP” is selected from the Title Screen. It is divided into left and right halves. The right half shows you how much of the selected drives are currently in use. The graph gives a percent estimate of how much memory is left on all of the selected ramcards collectively. Below the graph is a list of the drives (volumes) you selected in the configuration procedure along with the number of blocks free for each volume.

The Main Menu will initially contain the following options:

RAMUP 4.0		Feb 12, 1988 12:45 am	
*Add an Application	< [Progress Bar] >		
*Delete an Application	0 25 50 75 100		
*Save Auto-load Config			
Filer			
Backup/Restore			
Boot 6			
Boot 7			
	<u>Installed Drive</u>	<u>Blocks Left</u>	
	RAM	1511	
	RAM5	1325	
Use the arrow keys to highlight a program: RETURN to select			



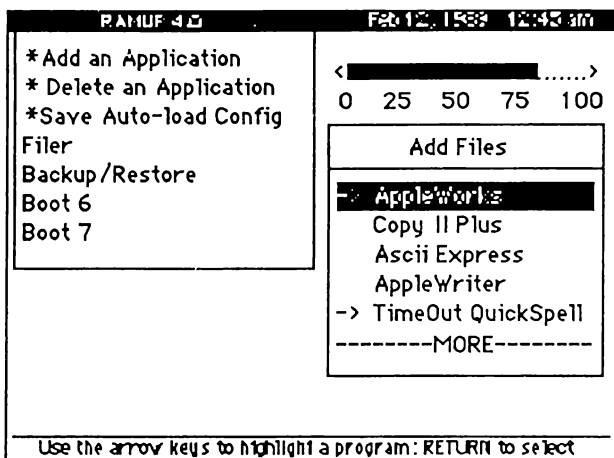
NOTE: The number of Boot items at the bottom of the menu will depend on the devices installed in your computer. **RAMUP** will only display Boot items for slots that contain bootable drive controllers. This may cause some confusion if you do not have a drive connected to the controller. For instance, a //c with 3.5 ROMS will display a Boot 5, whether or not a 3.5" disk drive is connected to the drive port.

To select options in the Main Menu use the up and down arrow keys to highlight your choice and press <RETURN> to execute the choice.

* Add an Application

* Add an application is used to load applications listed in your DATA.FILE to your ramcard and then list those applications on the Main Menu.

- 1) Select *Add an application from the **RAMUP** Main Menu.
- 2) A menu will appear on the right hand side of the screen with all of the programs you selected while preparing the DATA.FILE. You may select the applications you wish to install to the ramdisk by using the right and left arrows. An arrow will appear to the left of the selected items.



NOTE: You may also notice the percent of ram used



graph move when you select items. This graph gives you an estimate of how much room will be left on the ramdisk(s) after installation.

- 3) Press the <ESC> key when you have finished selecting programs to load and answer YES to the safety prompt by pressing the <Y> key and <RETURN>.
- 4) **RAMUP** will prompt you for the diskettes necessary to copy the programs you have selected onto the ramdisk . Please insert them one at a time until **RAMUP** is finished.



NOTE: **RAMUP** uses two different prompts to ask for another disk depending on the circumstances. If **RAMUP** fails to find the volume name that the program is normally found on it will display a prompt asking for that volume. At this prompt, you may optionally type in an alternate pathname (if you have copied the software to a different disk, for instance), or if **RAMUP** finds the correct volume or pathname, but cannot find the particular file it is looking for, it will display a prompt asking for the full pathname (including the filename).

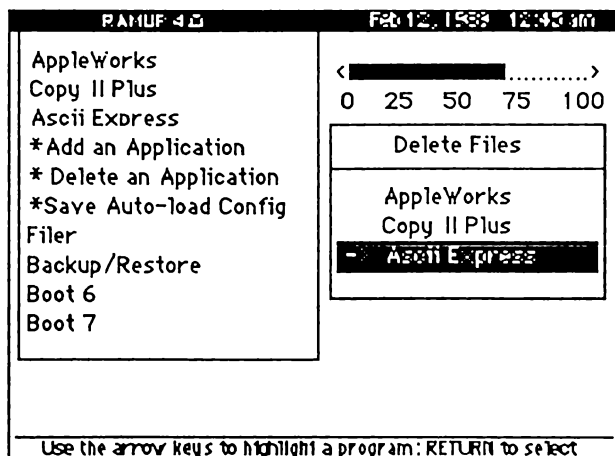
- 5) When all of the selected programs are fully copied to the ramdisk, **RAMUP** will return to the applications menu. You will notice that your applications have been added to the menu.

If an error occurs during the copying process, make a note of it and continue to load the ramdisk. Errors can occur here for a number of reasons: damaged floppy disks, not enough memory on the ramcard, or problems with the database description. The first thing you should try if such a problem occurs is to copy the file that would not copy using the filer program. This should give you some clues as to the soundness of your source diskettes. The utilities will be helpful in finding out if the database description is causing **RAMUP** to look for a file that does not exist or is on a different disk.

*Delete an Application

Occasionally you may want to free up some of the space being used by applications on your ramdisk in order to make room for more data or a different application altogether. You may remove applications from the ramdisk by using the *Delete an Application option. Follow these step-by-step instructions:

- 1) Select *Delete an Application from the **RAMUP** applications menu.
- 2) A menu will appear on the right hand side of the screen with all of the programs currently on the ramdisk listed. You may select the applications you wish to delete from the ramdisk by using the right and left arrows. An arrow will appear on the left of the selected item.





NOTE: You may also notice the percent of ram used graph move when you select items. This graph will give you an estimate of how much room will be left on the ramdisk(s) after the deletions.

- 3) Press the <ESC> key when you have finished selecting programs to load and answer YES to the safety prompt by pressing the <Y> key and <RETURN>.
- 4) **RAMUP** will delete all of the files which it copied onto the ramdisk, and if no additional files were created, the subdirectory that contains the application will also be deleted.
- 5) When all of the related files have been deleted you will be returned to the applications menu.

* **Save Auto-Load Config**

Selecting this option will modify the DATA.FILE on your boot disk so that **RAMUP** knows which applications to load automatically. All you need to do is load the ramdisk with the applications you want to use on a regular basis. Then select the * Save Auto-Load Config option. Choosing the option at this point will change the DATA.FILE items for everything on the menu. Next time you boot **RAMUP** you will be automatically prompted to insert the disks for each of the applications currently on the menu.

Choosing *Save Auto-Load Config from the menu is like saying, "Now that I have the ramdisk set up just the way I like it, let's set it up this way every time we boot."

Follow these steps:

- 1) Select * Save Auto-Load Config from the **RAMUP** applications menu.
- 2) Answer YES to the safety prompt ("Are you sure?") by pressing the <Y> key and <RETURN>.
- 3) If you do not have the **RAMUP** boot disk in the drive, you will be asked to insert it. Press RETURN once you have done this.
- 4) You will be returned to the **RAMUP** applications menu. No changes will be apparent until you boot next time. Then all of the current applications will automatically be copied back onto the ramdisk.

If you have a ramdisk with battery back-up, or multiple ramdisks with a combination of battery back-up and non-battery back-up, **RAMUP** will automatically check each volume to make sure it doesn't copy things that are already loaded.



NOTE: This option does not save data files created during the process of using programs on the ramdisk or files copied to the ramdisk with a copy program. Only the application files will be restored. See the **BACKUP/RESTORE** topic for an easy way of saving and restoring everything on the ramdisk.

FILER

This is a quick way to access a file utility to take care of all of your disk maintenance. The Filer program is Apple's utility for disk maintenance. By pressing <RETURN> on this option, you will enter the Filer program. Refer to your "Apple ProDOS User's Manual" for more information regarding this programs use .

BACKUP/RESTORE

The Backup/Restore program will make a quick and easy image backup of your ramdisk (or any other ProDOS volume you may want to back-up). The backup function will effectively save your ramdisk to another volume. The *restore* function will put the ramdisk back in place just like it was when you did the backup. An *image* backup is an exact copy of all of the blocks on a volume that are used. No blank blocks are copied into the backup, and files are not directly accessible from the backup until a restore is done. You can think of this type of backup as having a picture taken of your ram disk. The next time you restore the backup to

the ramdisk, it will look just like it did when you did the backup.

Highlight Backup/Restore and press <RETURN>. Use the up/down arrow keys to highlight BACKUP or RESTORE and press <RETURN>.

If you select the backup option the menu will ask you to select the SOURCE drive (the drive to be backed up).

Use the up/down arrows to highlight the SOURCE volume (your ramcard) and press <RETURN>. The menu will then ask you for a DESTINATION drive. Enter the DESTINATION slot and drive number.

NOTE: About 7 - 5.25" diskettes or 2 - 3.5" diskettes are required per megabyte of ramcard to be backed up. Diskettes **MUST** be formatted before being used for backup. Be sure you have enough **FORMATTED** diskettes on hand before beginning.



Backup will create a file or files on the DESTINATION drive called "Backup.disk.1" for the first disk, "Backup.disk.2" for the second, etc. Label your disks carefully. You will need to insert them in the correct order to restore.

If you select the restore option the menu will ask you for a SOURCE slot and drive number (the place

where you will insert your disks: Backup.disk.1, Backup.disk.2, etc). You will then select the DESTINATION slot and drive number for your ramcard. A prompt at the bottom of the screen will tell you which disks to insert in the SOURCE drive and when.

WARNING: Restore will overwrite all files on the DESTINATION disk. Make sure you have copied or backed up the current files on the DESTINATION before restoring.

This function can make it very easy to load your ramdisk when booting **RAMUP** at the beginning of a session. Restoring an image backup is much faster than loading software using *Add an application. This same Backup/Restore program is also available at the **RAMUP** Title Screen.

Since the backup produced by this utility is an image file, you cannot restore the backup to a larger volume. Although the restore will work and all of the files will appear on the restored disk, it will be the same size as the disk that was backed-up. In the case of restoring to a smaller volume, you may get errors if some of the blocks being restored are beyond the number of blocks available to the smaller volume. In any case, the size of the volume will not match after the restore.

Some hard drives use files with a file-type of BAD in order to mark bad sectors. If you use this program to

make a backup of such a drive, errors will occur on these BAD files. This is considered normal and the backup will continue when you press any key. (This should not be considered normal for hard drives that do not use this method. For such drives you should contact your dealer to test the drive.) When you restore the backup you must restore it to the same hard disk so that the bad blocks will be overlaid onto the same spots.

BOOT # - (Re-boot from any drive)

When **RAMUP** starts it looks at all available drives and lists them at the bottom of the **RAMUP** Main Menu. The number of listings depends on how many drives your computer has installed. Highlight any drive, press <RETURN>, and your computer will re-boot using the highlighted drive.



NOTE: It is assumed by **RAMUP** that all connected drives are bootable. Some are not on certain computers or may not contain disks with the appropriate files to boot.

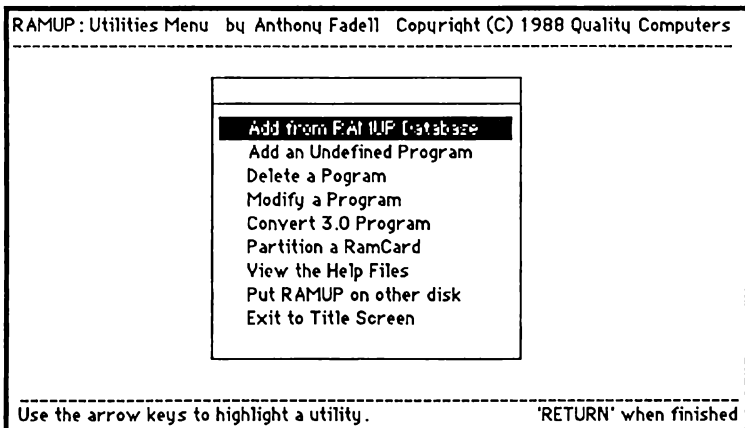
You may need to experiment with your particular computer system to determine which drives and disks can be booted. You can use <ctrl><open apple><reset> to re-boot the computer from the keyboard or PR#n (where n is the slot you wish to boot) from the BASIC prompt "J".

Chapter 5

RAMUP Utilities

The **RAMUP** Utilities Menu contains many utilities to help you setup or modify **RAMUP** to suit your specific needs. Each of these utilities is described in detail on the following pages. Also included are hints and tips to help you use the utilities to make **RAMUP** take away more busy work than you ever thought possible!

To enter this menu, just boot up the **RAMUP** program disk. At the **RAMUP** Title Screen, press <U> to enter the Utilities Menu. You may be asked to insert the **RAMUP** Utilities disk, if so, the Utilities disk is found on the backside of the **RAMUP** program disk. The **RAMUP** Utilities Menu appears as follows:



To execute a utility, highlight the utility you wish to use with the up/down arrow keys and press <RETURN>. The Exit to Title Screen option will return you to the **RAMUP** Title Screen.

Add from RAMUP Database

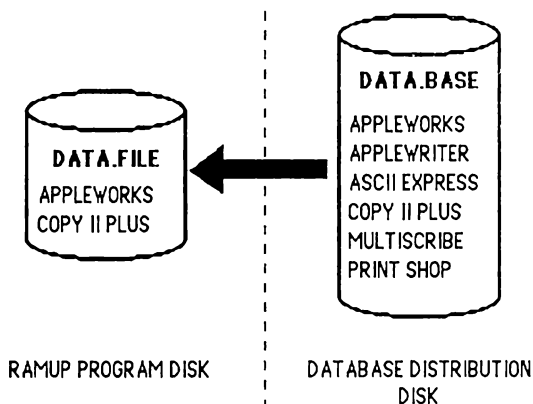
Add from RAMUP Database allows you to add applications to your DATA.FILE from the application definitions sup-

plied on your DATA.BASE diskette. This is the quickest and easiest way for you to tell **RAMUP** what applications you would like to load to your ramcard.

The application definition in the

DATA.BASE follows the exact file format that is released for the application from the manufacturer. This means that **RAMUP** should load your application's master diskettes as supplied from the manufacturer.

However, if you don't see an application on this list that you would like to load to the ramcard or your application doesn't fit the same file description as the DATA.BASE, DON'T worry! You may use the Add an Undefined Program or Modify a Program to make these programs load and run using **RAMUP**.



When you first enter Add from RAMUP Database you will be presented with a text screen containing notes about the program and a prompt allowing you to proceed or escape from this utility. To execute this utility, press <Y> and <RETURN>. If you do not wish to run this utility, press <N> and <RETURN> and you will then be returned to the **RAMUP** Utilities Menu.



The program will now look to your disk drives to find the DATA.BASE Distribution diskette supplied with your **RAMUP** package. Insert this disk into a drive and press any key at the prompt to continue. Add from RAMUP Database will now read all of the possible pre-defined applications you can select to add to your DATA.FILE. You will be presented with a menu containing this listing. Use the up/down arrows to scroll and the right/left arrow keys to mark/unmark the applications you want **RAMUP** to work with. When you have selected all of the files that you wish to load to the ramcard, press <ESC>.

NOTE: If you don't see any applications you wish to select from this list, make sure no applications are selected and press <ESC>. You will be returned to the **RAMUP** Utilities Menu.



If you have made sure you have selected all the files to add, answer <Y> and <RETURN> at the prompt to continue. If you've forgotten some files or marked one by accident, just answer <N> and <RETURN> and you will be returned to the selection process.

After you have finished selecting the applications, if this utility finds a DATA.FILE already in existence, it will automatically append the selected applications to the current list. However, if no DATA.FILE was found, Add from RAMUP Database will create this file to



enable you to run **RAMUP**. Follow the prompts the utility gives you for disk swapping. Note, at one point during the installation process, Add from RAMUP Database may ask you to insert the disk containing RAMUP.SYSTEM. This is found on the front side of the **RAMUP** program diskette. If you see this prompt, insert the correct disk and press any key to continue.

NOTE:



Remember that you are creating or modifying DATA.FILE which can contain a maximum of 26 listings. If you had a pre-existing DATA.FILE before using this utility, remember not to select any more than you have room for in the DATA.FILE. For example, if you had a pre-existing DATA.FILE with 20 applications installed, you cannot select any more than 6 additional applications. In this case, if you were to select more than 6 applications, let's say 8 applications, only the first six would show up on the *Add an Application screen, while the other 2 applications would be hidden.

Once the installation process is complete, you will see a prompt stating the installation has been suc-

cessful. Press any key and you will be returned to the **RAMUP** Utilities Menu.

Add an Undefined Program

Add an Undefined Program is one of the most powerful utilities that is supplied with your **RAMUP** package. This utility allows you to add applications or data files to **RAMUP's** DATA.FILE that are not already a part of **RAMUP's** DATA.BASE. This utility is also helpful for those who have definitions for their applications that differ with those found in the DATA.BASE. For example, this utility will allow you to add an application which could spread out over more than just one disk, or if the application is on a hard disk.

When you first select Add an Undefined Program from the Utilities Menu, you will be presented with a text screen containing notes and a prompt allowing you to execute or escape this utility. To execute this utility, press <Y> and <RETURN>. If you do not wish to run this utility, press <N> and <RETURN> and you will then be returned to the **RAMUP** Utilities Menu.

NOTE: This utility may ask you to insert the disk containing the RAMUP.CONFIG file. This file can be found on the front side of the **RAMUP** program diskette. Insert this diskette into the drive and press a key at the prompt. If this utility still prompts you to insert this disk, you must



run the **RAMUP** configuration program. See the “**RAMUP** Configuration” section of this manual for more information regarding this process.

At the next screen you will type or select the information concerning this application. To use this screen use the up/down arrow keys to select the line you wish to edit. If you look at the bottom of the screen it will tell you which keys you can use to input information.

At the first line you can type the title of the application. You may type up to 25 letters, numbers, or other characters. This title will show up on the “Add an Application” menu.

On the next line, if you have more than one ramcard you will be able to select which of these ramcards you would like **RAMUP** to load and execute the applications you are adding. Use the left/right arrow keys to select the volume where **RAMUP** will load this application. If “NONE” is selected, **RAMUP** will select the first ramcard with adequate space to load the application for you. This option is especially helpful if you have one battery backed-up ramcard or romdisk and a volatile ramcard. You may want to put the applications that you always load to the battery backed-up ramcard, while only loading the infrequent applications to the volatile ramcard. This will enable you to have free ram left on your romdisk to save your most used data files.

The "Video Mode" option is the next selection on this screen. Use the left/right arrow keys to set this option accordingly. Most programs today are 80 columns (ie. AppleWorks, Quicken, and various other text programs). However, if you are using graphics applications such as Multiscribe or Publish It! this option should be set to 40 columns. If you have any questions you should consult your owners manual of the applications. Remember: text applications are 80 columns while graphic applications are 40 columns.



When you have finished specifying the information on this screen, insert the diskette which contains the files you wish **RAMUP** to load to your ramcard. This diskette will be defined as the Source volume. Once you have the disk ready, press <ESC> to move to the file selection screen. You will now see a menu containing a listing of all volumes on-line (see NOTE). Highlight the Volume name of the source diskette by using the left/right arrow keys. When you have selected the proper choice, press <RETURN>.

NOTE:



If your files are found in a subdirectory, instead of the volume directory, you may select "Specify a Path". At the prompt, type in the location of the files. Remember, when specifying a path, be sure to have slashes "/" beginning and ending the path. When finished press <ESC> to move to the next screen.

At the next screen you will specify the target pathname for the application files you wish to load from the source volume you specified above. **RAMUP** will create this path on your ramcard and then copy the application files into it during the loading process. You may notice a volume name already present on this screen, this is the volume name you specified in the volume preference option at the beginning of Add an Undefined Program. If you selected "NONE" at this option, the volume name will default to "/VOLUMENAME/". This only means that **RAMUP** will select the volume for you. If you selected an actual volume for this option the name will appear here. You cannot change or modify this volume name, but don't worry, if this selection is not correct you can use Modify a Program to change this option quickly and easily. Now type in the target pathname, remember that slashes "/" must begin and end this pathname. When finished, press <ESC> to move to the next screen.

Now you will be presented with a list of files that **RAMUP** can load from the Source volume or path. Select every file you would like to load from that Source volume or path by using the up/down arrow keys to highlight a file. The right/left arrow keys are used to mark/unmark all the files required.

NOTE: You do not have to select the files, ProDOS or BASIC.SYSTEM. **RAMUP** automatically loads and runs these files at the appropriate times.



When you have finished selecting, press <ESC>. If you have made sure you selected all the files, answer <Y> and <RETURN> at the prompt to continue. If you forget some files, just answer <N> and <RETURN> and you will be returned to the selection process.

Some applications are directly executable while others are installed as accessories to other programs. At this point you should determine whether the application you are adding to the DATA.FILE is directly executable or an accessory.

Executable applications are programs such as AppleWorks, Multiscribe, and Quicken, while accessories are ones like TimeOut QuickSpell, TimeOut Thesaurus, or Pinpoint Desk Accessories. Accessories do not generally have an executable file. However, when an application is executable, there is always one file to be executed first, this file may end with the suffix (.system) and is usually found in the catalog right after the ProDOS system file. For example, AppleWorks has an executable file called APLWORKS.SYSTEM. Applications written in BASIC may use a file called STARTUP as its executable file.



NOTE: You may directly execute BAS type files from **RAMUP** (ie. select them as executable files in this utility). However, in order for them to successfully execute under **RAMUP** you must have selected "YES" for loading BASIC.SYSTEM to the ramdisk when an-

swering the configuration questions. Using **RAMUP** to execute BASIC programs in this manner is much more efficient than loading BASIC.SYSTEM for each BASIC application and selecting it as the executable file.

Refer to your application's users manual for more information regarding the executable file. On the screen you will see a menu of all of the files you selected from the previous screen. Use the up/down arrow keys to highlight the executable file for this application and press <RETURN>. However, if no executable file exists for this application press <ESC>.

At this point you have finished installing one set of files for this application. The next screen asks you whether you have finished installing this application. If there are more files you need to add for this application, or there are more files which are contained on a separate disk(s) press <C> to continue to add files. When you choose to continue you will be brought back to the source diskette screen where you can choose the volume you would like to load programs from. Continue with the same instructions as above. However, if you have added all of the files necessary for this application, press <ESC> and you will be returned to the **RAMUP** Utilities Menu.

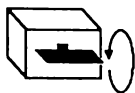
Here are some hints and tips when using Add an Undefined Program to maximize your use of **RAMUP** :

- 1) Use this utility to create an application called, "My Data" to copy your data to the ramcard.
- 2) Make separate definitions for macro files.
Database macros can be loaded when you only need to use your database program, and spreadsheet macros can be loaded when you need to use your spreadsheet program.
- 3) Before using Add an Undefined Program you may want to make a list of files and subdirectories necessary to run the application.

Delete a Program

Delete a Program allows you to remove application listings from DATA.FILE so that you can make space available for other listings or remove applications that were incorrectly installed.

When you first enter Delete a Program you will be presented with a text screen containing notes about the program and a prompt allowing you to proceed or escape from this utility. To execute this utility, press <Y> and <RETURN>. If you do not wish to run this utility, press <N> and <RETURN> and you will then be returned to the **RAMUP** Utilities Menu.



This utility may ask you to insert the disk containing the **RAMUP** DATA.FILE. This file can be found on the front side of

the **RAMUP** program diskette. Press any key at the prompt to continue.



NOTE: The DATA.FILE file will be present only if you have used the Add from RAMUP Database or Add an Undefined Program successfully. If you are continually asked to insert the disk containing this file after you have inserted the proper diskette, the DATA.FILE has not been created. Therefore, since there are no pre-existing programs in this file the Delete a Program utility will not work.

You will be presented with a menu with all programs installed in the DATA.FILE. Use the up/down arrow keys to scroll through the files. Use the right/left arrow keys to mark/unmark the applications you would like to delete. When you have finished selecting, press <ESC>. If you have made sure you selected all the files to delete, answer <Y> and <RETURN> at the prompt to continue. If you've forgotten some files or marked one by accident, just answer <N> and <RETURN> and you will be returned to the selection process.

The utility will proceed to delete the applications from the DATA.FILE. You will notice the prompt "Programs have been deleted Successfully," now press any key and you will be returned to the **RAMUP** Utilities Menu.

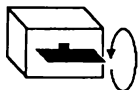


NOTE: If you delete all of the application listings, this program will delete the whole DATA.FILE. To be able to use **RAMUP**, a DATA.FILE must be created by using either Add from RAMUP Database or Add an Undefined Program. For more information see the section on "DATA.FILE".

Modify a Program

The Modify a Program utility allows you to edit program listings found in the DATA.FILE. This utility is very useful if you have used the application definition in the **RAMUP** DATA.BASE and need to modify the definition to support your 3.5" disk or hard drive.

When you first execute Modify a Program from the Utilities Menu, you will be presented with a text screen containing notes and a prompt allowing you to proceed or escape from this utility. To execute this utility, press <Y> and <RETURN>. If you do not wish to run this utility, press <N> and <RETURN> and you will then be returned to the **RAMUP** Utilities Menu.



This utility may ask you to insert the disk containing the **RAMUP** DATA.FILE. This file can be found on the front side of the **RAMUP** program diskette. Press any key at the prompt to continue.

NOTE: This file will be present only if you have used the Add from RAMUP Database or Add an Undefined Program successfully. If you are continually asked to insert the disk containing this file after you have inserted the proper diskette, the DATA.FILE has not been created. Therefore since there are no pre-existing programs in this file the utility will not work.



The utility will now read all of the applications found in your DATA.FILE. When finished, you will be presented with a listing of these applications. Use the up/down arrow keys to highlight the application you wish to modify and press <RETURN>.

Modify a Program will read all the information concerning the application you selected. The first screen you are presented with contains the vital information concerning the entire application such as the title, autoloader, video mode, volume preference, and length. Use the up/down arrow keys to scroll through the fields you wish to edit.

At the first line you can type the title of the application. You may type up to 25 letters, numbers, or other characters. This title will show up on the Add an Application menu.

Autoloader can be found on the next line. Use the left/right arrow keys to toggle YES or NO. If you select

YES, this application will become part of your auto-load configuration. See "Save Auto-Load Config" for more details regarding this option.

On the next line, if you have more than one ramcard you will be able to select which of these ramcards you would like **RAMUP** to load to and execute the application from. Use the left/right arrow keys to select the volume where **RAMUP** will load this application. If "NONE" is selected, **RAMUP** will select the first ramcard with adequate space to load the application for you. This option is especially helpful if you have one battery backed-up ramcard or romdisk and a volatile ramcard. You may want to put the applications that you always load to the battery backed-up ramcard, while only loading the infrequent applications to the volatile ramcard. This will enable you to have free ram left on your romdisk to save your most used data files.

The "Video Mode" option is the next selection on this screen. Use the left/right arrow keys to set this option accordingly. Most programs today are 80 columns. (ie. AppleWorks, Quicken, and various other text programs). However, if you are using graphics applications such as Multiscribe or Publish It! this option should be set to 40 columns. If you have any questions you should consult your owners manual of the applications. Remember: text applications are 80 columns while graphic applications are 40 columns.

The "Length" option is used by the on-screen graph to tell you if you'll have enough room to install the application on your ramcard(s). Simply type in the number of blocks used by this application. You can determine this by cataloging the diskette and adding up the number of blocks used by each file that will be loaded by **RAMUP**. For more information regarding cataloging diskettes and reading the information, refer to your "Apple ProDOS Users Manual"

When you have finished editing this screen press <ESC>. You will be presented with another screen which contains the file information about this application. Use the up/down arrow keys to toggle through the fields.

On the first line you will specify the source pathname for the application files. This is the location where **RAMUP** will load the application's files from. This may be either a volume or an entire path. Be sure when you type in the source pathname to have slashes "/" both beginning and ending the path.

On the next line you will specify the target pathname for the application files you wish to load from the source volume you specified on the above line. **RAMUP** will create this path on your ramcard and then copy the application files into it during the loading process. You may notice that a volume name is already present on this screen. This is the volume name you specified in the volume preference option at the

specified in the volume preference option at the beginning of Modify a Program. If you selected "NONE" at this option, the volume name will default to "/VOLUMENAME/". This only means that **RAMUP** will select the volume for you. If you selected an actual volume for this option the name will appear here. You cannot change or modify this volume name. Now type in the target pathname, remember that slashes "/" must begin and end this pathname.

The following lines contain each filename with a file-type to be loaded from the pathname at the top of the screen. You may rename any of the files. You cannot add or delete files from the definition on this screen. If you want to add or delete files you must exit this utility, use Delete a Program to delete this application, and then use Add an Undefined Program to create a definition with the files of your choice.

To change the file type of each file use the <TAB> key to toggle between the filename and the file type column (T). Use the spacebar to change this field. There are three types of files used with **RAMUP**: executable, regular, and optional files. Each are explained in detail below:

E - This is the executable file for this application. You may not select more than one "E" file. Some applications are executable while others are accessories. At this point you should determine whether the application you are modifying in the DATA.FILE is executable or an accessory.

Executable applications are programs such as AppleWorks, Multiscribe, and Quicken, while accessories are ones like TimeOut QuickSpell, TimeOut Thesaurus, or Pinpoint Desk Accessories. Accessories generally do not have an executable file. However, when an application is executable, there is always one file to be executed first, this file may end with the suffix (.system) and is usually found in the catalog right after the ProDOS system file. For example, AppleWorks has an executable file called APLWORKS.SYSTEM. Applications written in BASIC may use a file called STARTUP as its executable file. Refer to your application's users manual for more information regarding the executable file. If you cannot toggle this field to show an "E", somewhere on this screen another file has been marked "E", just find this file and change it to another file type. Then go back to the file that should be the executable file and change it to "E".

F - Files marked "F" are indications to **RAMUP** that they must be copied to the ramcard. If **RAMUP** cannot find and load this file to the ramcard, the application will not be fully installed, thus **RAMUP** will not put the application title on the Main Menu. These are files such as additional program segments or files that a program must have to operate normally. If such a file was not found by the program it will not run properly.

? - Files marked "?" are copied to your ramcard if available - that is - they are considered optional by **RAMUP**. These are files such as data files, macro files, or program segments you wish to load only during certain computer sessions. It is also helpful for different versions of the same software package. If **RAMUP** finds the file on the disk it will load it to the ramcard. If the file is not found, **RAMUP** will skip over the file and continue loading with the next file.

If additional files exist within this application's definition, similar screens will follow containing the rest of the files. Press <ESC> when you are finished editing each screen. When all of the information has been shown on the screen, a prompt will appear that the modification was successful. Press any key and you will be returned to the **RAMUP Utilities Menu**.

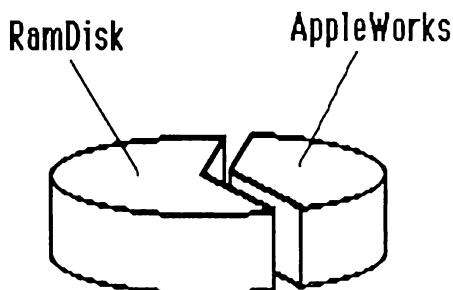
Partition a RamCard

Some programs will automatically recognize that a ramcard is installed in your computer and use the additional memory. For instance, AppleWorks will automatically use the additional memory as desktop space on many ramcards. This can be good if you are not using the expanded memory for anything else, however, if you are using it for a ramdisk (as **RAMUP** does) this can be disastrous. When a program accesses the memory in use by the ramdisk it runs a high risk of destroying all or part of the contents of the ram volume. These types of programs force you to choose

whether to use a ramdisk or whether to use the program.

Of course it would be much better if we could specify that some of the ram would be used by the ramdisk, and the rest would be used by the

program. The partition utility will allow us to do this. partitioning will allow us to specify a certain amount of ram to be used by AppleWorks for program and desktop space, while the rest is used for the ramdisk. No other programs that access extended memory are guaranteed to recognize the partition at this time, however several may.



Only ramcards that use the RAM.DRIVE device driver are partitionable. These cards as well as those that do not are listed as follows:

Partitionable

AE Zram
AE Ramworks
Checkmate MultiRam

Non-Partitionable

AE Ramfactor
Any GS Ram expansion
Apple Ram Expansion

If your card is non-partitionable, do not worry. AppleWorks 2.0+ will handle this problem by creating a file on the ram volume. All of the space in use by the file will

be dedicated to AppleWorks desktop, therefore avoiding crashing the ramdisk. If your card is partitionable then read on.

In order for partitioning to work on your ramdisk, you must first use the expansion software that comes with your ramcard to give AppleWorks the capabilities needed to work with the additional ram. Both Applied Engineering and Checkmate supply expansion software to enhance any version of AppleWorks. If you have a version of AppleWorks below 2.0, we would recommend that you upgrade as soon as possible because of the bugs encountered in earlier versions. Be sure to use a backup copy of your original AppleWorks disk when doing the expansion.

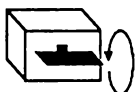


NOTE: DO NOT install any accessory software (ie. TimeOut or Pinpoint) for AppleWorks until after the partitioning process is finished. Additionally whenever you change the partition sizes you must start by expanding a fresh copy of AppleWorks.

After you have expanded the AppleWorks software you may run the **RAMUP** partition utility. Follow these step-by-step instructions:

- 1) Select Partition a RamCard from the **RAMUP** Utilities Menu.

- 2) In a few seconds a screen will appear that will ask for the disk that contains the RAM.DRIVE file (if you are running from 5.25" disks). This file is normally found on the front side of the **RAMUP** program disk. Please insert this disk and press <RETURN>.



- 3) The utility will read the previous partition data from the RAM.DRIVE driver and will display it on the screen with a graph. The left side of the graph represents how much expanded memory will be used by AppleWorks, and the right side of the graph will show how much room will be used by the ramdisk. Use the right and left arrow keys to adjust the partition sizes.
- 4) When you are satisfied with the amount of ram that will be available to the ramdisk and to AppleWorks you may press the <RETURN> key to continue.

- 5) At this point the ramdisk partition information will be written back into the file named RAM.DRIVE.



In a few seconds the partition program will prompt you to insert the AppleWorks diskette. (If you are not partitioning AppleWorks you may press the <ESC> key to finish the partitioning process at this point). Please insert the backup of AppleWorks that you expanded with the ramcard expander software and press <RETURN>.

- 6) The partition program will scan the AppleWorks disk to determine whether it was expanded for an Applied Engineering card or a Checkmate card. It will then write the partition information to AppleWorks and display a success message.
- 7) Before hitting any keys please insert the **RAMUP** utilities disk (this is the back side of the **RAMUP** program disk). You may then press any key to return to the **RAMUP** Utilities Menu.

You may now install any accessory software that you might want to use with AppleWorks.

Convert 3.0 Program

This utility is supplied for the users of **RAMUP 3.0**. It will allow you to convert the DATA.LIST and TITLES.DAT from the **RAMUP 3.0** format into the new format used by **RAMUP 4.0**. You only need to use this utility if you have made extensive changes to the DATA.LIST and TITLES.DAT. DO NOT USE this utility if you only made minor or no changes to these files, USE the Add from RAMUP Database or Add an Undefined Program utilities to configure **RAMUP**. We have supplied this utility to make it easier for previous **RAMUP** users to get up and running with the new version of the software under their old configuration. However, we do not recommend you use this utility. When a conversion is done on a file many of the vital features of this new version of **RAMUP** will not be

activated. You will have to use Modify a Program to activate these features.



NOTE: You must have the file format of your previous DATA.LIST and TITLES.DATA exactly as the **RAMUP 3.0** manual states. If there are any errors or comment fields in these files this program will crash. Also you must have at least one window installed with 2 or more applications in that window. See your **RAMUP 3.0** manual for more information regarding the file formats.



You will be prompted to insert your **RAMUP 3.0** disk containing the DATA.LIST and TITLES.DATA files.

Insert this disk, (usually the front side of **RAMUP 3.0**) and press any key at the prompt.

You will be presented with a menu containing a list of all of the applications in the file. Use the up/down arrow keys to highlight the applications. Use the right/left arrow keys to mark/unmark each application you wish to convert. When you have finished selecting all of the applications to be converted press <ESC> to end selection.



NOTE: If you don't see any applications you wish to select from this list, make sure no applications are selected and press <ESC>. You will be returned to the **RAMUP** Utilities Menu. However, if you have made sure you selected

all the files to convert, answer <Y> and <RETURN> at the prompt to continue. If you've forgotten some files or marked one by accident, just answer <N> and <RETURN> and you will be returned to the selection process.

This utility will now begin to convert the selected files from the DATA.LIST file into the new **RAMUP 4.0** format. Note, at one point during the conversion



process, Convert a 3.0 program may ask you to insert the disk containing RAMUP.SYSTEM. This is found on the front side of the **RAMUP** program diskette. If you see this prompt, insert the correct disk and press any key to continue. If this utility finds a DATA.FILE already in existence, it will automatically append the selected applications to the current list. However, if no DATA.FILE was found, Convert a 3.0 program will create this file to enable you to run **RAMUP**.

NOTE: Remember that you are creating or modifying DATA.FILE which can contain a maximum of 26 listings. If you had a pre-existing DATA.FILE before using this utility, remember not to select any more than you have room for in the DATA.FILE. For example, if you had a pre-existing DATA.FILE with 20 applications installed, you cannot select any more than 6 additional applications. In this case, if you were to select more than 6 applications, let's



say 8 applications, only the first six would show up on the Add an Application screen, while the other 2 applications would be hidden.

Once the conversion and installation is complete, you will see a prompt on the screen which states the conversion was successful. Press any key and you will be returned to the **RAMUP** Utilities Menu.

View the Help Files

With this utility you have the ability to view the help files contained on the **RAMUP** disk. These files contain information about specific program setups like AppleWorks with the TimeOut series, or how to set up **RAMUP** with ProDOS 16. You may scan through the text backwards, as well as forwards, by using the up/down arrow keys. When you have scanned through all of the text, you will be returned to the **RAMUP** Utilities Menu.

Put RAMUP on other disk


This utility is designed to help you easily install **RAMUP** on a 3.5" disk, hard disk, ramdisk, or ROM disk, by taking out the guess work involved in such an operation.



NOTE: Before you run this utility make sure you have a disk that has been formatted for ProDOS. This does not mean that the disk must be blank, but that ProDOS files can be copied to the disk. Also the disk must contain enough room to store the **RAMUP** program. If you are installing just the **RAMUP** program you will need about 140k. However, if you would like to install the **RAMUP** Utilities as well as the program, you will need about 280k. If you are using a battery backed ramcard, such as the Ramfactor with Ramcharger or GSRam with Ramkeeper, you **MUST** first **FORMAT** the ramcard and then use this utility. For more information regarding the disk formatting process, consult your "Apple ProDOS Users Manual".

Please have the volume you wish to have **RAMUP** installed onto in the computer before executing this utility.

Select Put RAMUP on other disk from the **RAMUP** Utilities Menu. When the utility is finished loading, you will be presented a menu with the volumes on line. If the volume you wish to install **RAMUP** on is not shown on the screen, don't worry, just insert the disk and press <R> to re-scan the volumes. Use the up/down arrow keys to highlight the volume where **RAMUP** is to be installed and press <RETURN>.

NOTE:  If you do not see the volume name on the screen of the disk you wish to install **RAMUP** on, even after you have inserted the disk and pressed <R>, the disk you inserted is not formatted for ProDOS. Consult your "Apple ProDOS Users Manual" for more information.

You will be asked if you want ProDOS 8 installed along with **RAMUP**. This will enable you to boot up your computer from this volume. You will want to answer "YES" to this option if you have installed a newly formatted disk with no files or ProDOS, or if you are using a battery backed ramcard, such as the Ramfactor with Ramcharger or GSRam with Ramkeeper, this will make **RAMUP** bootable from that ramcard on power-up. However, if you are installing this on a disk that is already bootable, you want to answer "NO" at this prompt. Appropriately answer <N> or <Y> at the prompt and press <RETURN>.

This utility will now begin copying all of the files **RAMUP** requires to run from a ramcard. After these files are copied, you will be asked if you want the utilities also installed. Having the utilities installed on the same diskette is helpful and time saving, especially when you won't have to bother with continually swapping diskettes. However, if you answer "NO" this will save vital storage space. We recommend that you install the utilities on a hard drive or 3.5" disk installation and not on a battery-backed-up ramcard or ROMdisk. This is because if the ramcard ever loses power you will

lose the current configuration of both **RAMUP** and **DATA.FILE**, however, when using a diskette, the information cannot be easily lost without destroying the disk. Appropriately answer <N> or <Y> at the prompt and press <RETURN>.

After all of the files are installed you will be returned to the **RAMUP** Utilities Menu.

Appendix A

ABOUT DATA.FILE AND DATA.BASE

RAMUP provides a database that includes many popular ProDOS application definitions which **RAMUP** uses to load your ramcard. This database is the file, DATA.BASE, found on the second disk in the **RAMUP** package marked "DATA.BASE Distribution Disk." This database takes up more than 55k of disk space and will probably contain definitions of many of the programs you will want to run with **RAMUP**. It also will undoubtedly contain some definitions which you will have no need for.

Because of this, **RAMUP** requires you to prepare your own customized database called a **RAMUP** DATA.FILE. By doing this you can save valuable space on the ramdisk and avoid menus cluttered with prompts for applications that are never used. DATA.FILE is a subset of **RAMUP**'s DATA.BASE which is loaded to your ramcard. You create and edit this subset, DATA.FILE, with the utilities found on the back side of the **RAMUP** program disk.

Your customized DATA.FILE may contain a maximum of 26 application listings. If you wish to change DATA.FILE when 26 listings have previously been selected, you must first use "Delete a Program" to make room for the changes.

NOTE:



If you modify DATA.FILE through Add from Database, Delete a Program, Modify a Program, or Add an Undefined Program you must replace the ramcard copy of DATA.FILE with the modified copy. Cold booting and then restarting **RAMUP** will load the modified DATA.FILE to your ramcard. If you have a battery backed ramcard, you may use Filer to copy the modified DATA.FILE to your ramcard.

Appendix B

Continuing To Use RAMUP

RAMUP provides three methods to load your ramcard. They are:

- 1) Selecting applications each time you load your ramcard. (See *Add an application).
- 2) Using Auto-Load to load applications automatically on boot-up. (See Auto-Load Config).
- 3) Using Backup/Restore to restore an image of a previous backup. (See Backup/Restore).

Backup/Restore is by far the fastest option for regularly setting up a ramdisk configuration, but the others are provided to give maximum flexibility to all users.

RAMUP will support a ProDOS compatible clock by displaying the date and time at the top of the screen while at the Main Menu. Many clocks require a special driver be installed on whatever disk you boot the machine from. Most often this will be the **RAMUP** program disk. Please refer to your clock hardware manual for instructions on installing this driver on the **RAMUP** program disk.

Appendix C

Setting Up AppleWorks

If you are using a Zram, Ramworks, or MultiRam card, you must follow these steps when you prepare AppleWorks for use with the ramcard:

- 1) Use a fresh backup copy of your AppleWorks master disk.
- 2) Use the AppleWorks expansion software that comes with your ramcard to give AppleWorks the capability to use the additional ram. This software will allow AppleWorks to have a large desktop, printer buffer, and many other conveniences only available with lots of ram.
- 3) Use the partition utility from the Utilities Menu on **RAMUP** to make sure that the expanded capabilities AppleWorks has will not steal memory from the ramdisk. This utility will allocate a certain amount of space to AppleWorks and the rest to the ramdisk.
- 4) Add any accessory software that you might want to use with AppleWorks. These accessories include the TimeOut series and Pinpoint. These accessories should not be installed before doing

the above steps.

Any time you want to change the partition sizes or expansion capabilities you should start over from step one of these instructions. Any time you change these items, start with a fresh copy of AppleWorks, and always install the accessories last.

When installing the TimeOut series of AppleWorks enhancements make sure that you set the "Location of TimeOut Applications" to the AppleWorks subdirectory on the ramdisk (this is normally /RAM/APPLEWORKS/).

Appendix D

Distribution Files

This is a list of files that should be included on the diskettes you recieved with your RAMUP 4.0 package:

<u>Files</u>	<u>Description</u>
RAMUP front side:	
/RAMUP	
PRODOS	ProDOS operating system file
RAMUP.SYSTEM	RAMUP startup program
BASIC.SYSTEM	Applesoft BASIC
/WORKSUB	
BACKUP	Backup/Restore utility
RAM08.SYSTEM	RAMUP launcher program
FILER	Apple ProDOS filer program
QUIT.CODE	RAMUP quit routine
RAM.DRIVE	Ramdisk driver
RAMUP back side:	
/RAMUP	
/WORKSUB	
HELP.DATA	AWP notes on RAMUP
INSTALL.UNIHARD	RAMUP installation program
DELETE	Delete an Application utility
MODIFY	Modify an Application utility
ADD	Add an Undefined Program
CONVERSION	Convert 3.0 Application utility
PARTITION	Partition utility

<u>Files</u>	<u>Description</u>
RUTIL.SYSTEM	Utility menu
QUIT.CODE	RAMUP quit routine
ADD.DATABASE	Add from Database utility
HELP.FILES	Used to read HELP.DATA

Database distribution disk:

/RAMUP

 /WORKSUB

 DATA.BASE **RAMUP** application database

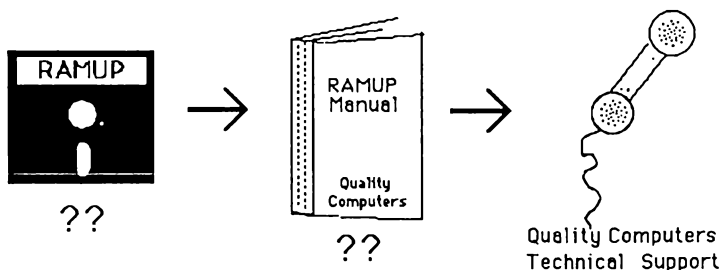
Appendix E

Technical Support

If you are experiencing problems with your **RAMUP** program we have a technical support staff you can contact to receive free assistance.

Before you call:

- 1) Be sure your computer matches or exceeds the minimum requirements specified in the 'REQUIREMENTS' section of this manual.
- 2) If you are using a backup copy of **RAMUP**, be sure that you have made a good copy.
- 3) Make sure you have read the section of the manual that refers to the portion of the **RAMUP** program you are having a problem with.



Remember, if you have a problem with **RAMUP**, check your manual first, then call technical support.

Make sure you have this information ready when you call:

- 1) Be sure you know what version of **RAMUP** you are using. You can find this number on the **RAMUP** Title Screen when you boot the RAMUP diskette.
- 2) Be sure you know what type of machine you are using. It is also helpful to know what revisions of ROM or motherboard you have, however the technicians will be able to determine this information if you do not know it.
- 3) Be sure you know what type of ramcard you are using, and additionally what slot it is being used in.
- 4) Be sure you know what additional cards you are using and what slots they are in.
- 5) Be sure you know what software you are using **RAMUP** with.
- 6) Be able to clearly and concisely describe the problem you are having. It may help for you to sit down with the program and write down the steps that you take when the program exhibits the problem. It may also be advantageous for you to call from a phone near your computer. In this way the technicians can step you through techniques and fixes while you are on the computer.

Knowing this information before you call will allow our technicians to quickly pinpoint the problem you may be having. They will try to answer your questions as quickly as possible, however, sometimes a problem might be too complicated to answer over the phone. In such a case they may ask you to send in your disks for closer inspection.

Our technicians are not just there for problems. If you want to use **RAMUP** in a way not explained in this manual, they may be able to suggest techniques to help you get the most from **RAMUP**. They will also be able to suggest an optimal hardware configuration for your needs when you are interested in upgrading your system.

Who to contact:

Quality Computers Technical Support
15102 Charlevoix
Grosse Pointe Park, MI 48230

(313) 331-1115

10:00am - 5:30pm
EST: Monday - Friday